

Weed Management

Purdue Extension



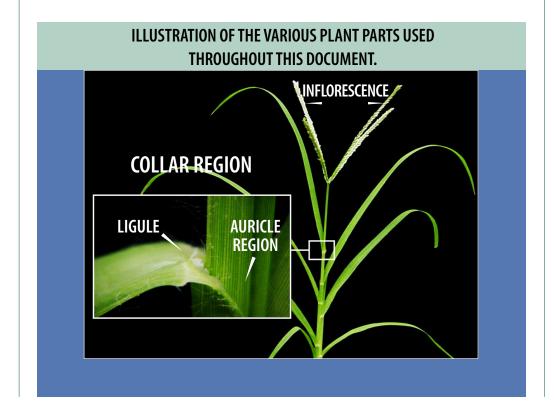
Guidelines for Submitting Digital Plant Images for Identification:

Grass Identification

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The accuracy of identifying a plant from digital images is dependent on the information captured in the images. The better the image, the better the diagnosis. Certain plant features are necessary for species identification. It may be beneficial to have an image of the entire plant, but it is unlikely for a plant to be positively identified from a single image. Consider submitting multiple images, each one focused

on a particular morphological feature. In the columns below are illustrations of important plant features for four grass plants. Note the level of detail needed for each morphological feature. All outlined features do not apply to every plant, while some plants may have other features to consider. When in doubt, take the extra image; it may be the key to correct identification of the plant.



Entire plant. To give the diagnostician a general overview of the plant.

JOHNSONGRASS



SHATTERCANE



GIANT FOXTAIL



YELLOW FOXTAIL



Stem shape.

Round

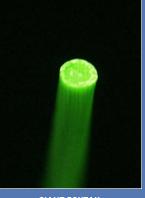


Round



SHATTERCANE

Round



GIANT FOXTAIL

Flattened



YELLOW FOXTAIL

Leaf ligule. The thin tissue at the collar region between the blade and the stem.

Membranous



JOHNSONGRASS

Membranous



Membrane tipped with hairs

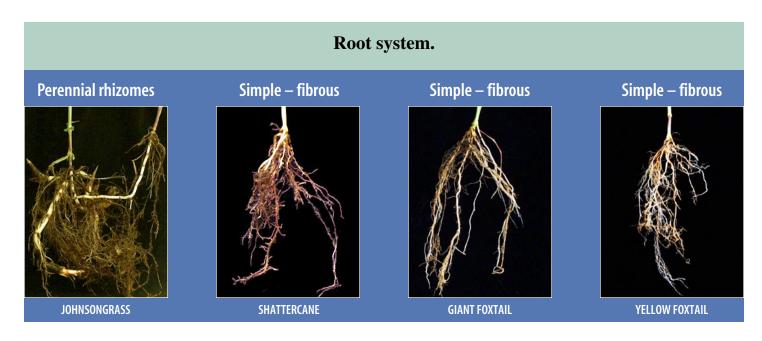


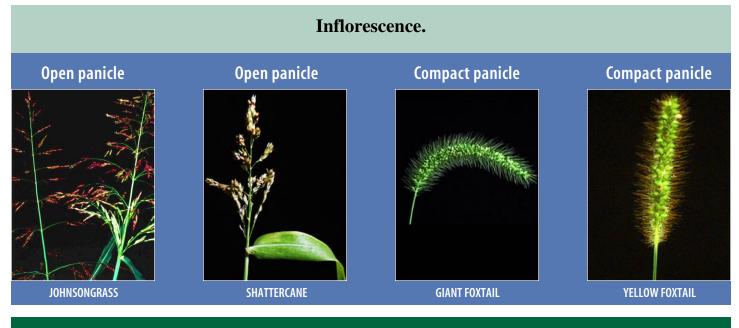
GIANT FOXTAIL



YELLOW FOXTAIL

Hairs on leaf blade, leaf margin, or stem sheath. No hairs present No hairs present Short hairs on leaf blade Long hairs near collar JOHNSONGRASS SHATTERCANE GIANT FOXTAIL YELLOW FOXTAIL



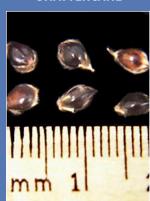


Attached seed. Seedling grasses should still have the seed attached to a root below the soil surface. Even genetically similar species have distinct seed characteristics.

JOHNSONGRASS



SHATTERCANE



GIANT FOXTAIL



YELLOW FOXTAIL



Special characteristics of some species.

Auricles present on Quackgrass



Absent ligule on Barnyardgrass



Perennial stolon of Bermudagrass



Triangular stem of Yellow Nutsedge

